

ABSTRACT OF THE DISCLOSURE

A distributed simulation system includes a plurality of nodes. Each node is
5 configured to simulate a portion of a system under test. The simulation is performed as a
series of timesteps. The transition between timesteps is synchronized in the plurality of
nodes. In one implementation, the distributed simulation system includes a hub which is
configured to synchronize the transition between timesteps in the plurality of nodes. For
example, in one embodiment, the hub may receive commands from each of the plurality
10 of nodes. If each command indicates that the corresponding node is capable of
completing the timestep, the hub transmits a command to each node indicating that the
timestep is complete. The nodes may begin processing the next timestep in response to
the command. In other embodiments, a hub may not be included.